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Seismic imaging in the focal region of the 2000 Tottori-ken Seibu Earthquake using Vibrators

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An aftershock observation of the 2000 Tottori-ken Seibu Earthquake was conducted to investigate the structure in the focal region. Controlled seismic source is very useful to reveal the heterogeneous seismic crustal structure. So we used four Vibrators as a controlled seismic source to reveal the structure in the focal region. The shot positions were located in and around the focal region. The seismic signal emitted from Vibrators (20 seconds of 6-30Hz linear upsweep) was recorded by off-line recorders which were deployed around the focal region. Additionally, We established the CDP line, located across the estimated fault and recorded the seismic signals emitted from Vibrators. On the record section, we can recognize first and later arrivals.

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